

# DEFISURF 2

Modelling of the effects of integrity and surface defects on the fatigue behaviour of forged components

BUDGET

€2,288 K

GRANTS  
OBTAINED

€922 K

ANR FUNDING

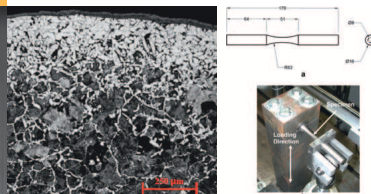
2012 - 2016

## THE PROJECT

Currently, the forming process and the dimensioning phases of industrial parts are often unconnected. The dimensioning of such parts for service conditions does not take into consideration the thermo-mechanical and microstructural history of the materials used. This can lead in particular to approximate estimations of their mechanical strength in use and the use of factors of safety that are too high.

The main aim of the DEFISURF project is to include the effects of surface defects and microstructural heterogeneities in the dimensioning of forged components from the forming process phase in order to better control and predict their mechanical strength in use.

**ViaMéca**  
Pôle de compétitivité mécanique



Essais de flexion plane et rotative sur éprouvettes cylindriques en acier 10840, brutes de forge et forgées à chaud.

### PROJECT SPONSOR

ENSAM PARISTECH

Franck MOREL

Prof./Director of the LAMPA  
Franck.Morel@ensam.eu

2, bd du Ronceray - BP 93525  
49035 ANGERS CEDEX 01

[www.ensam.eu](http://www.ensam.eu)

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